

# PLAN OF OPERATIONS FOR MINING ACTIVITIES ON NATIONAL FOREST SYSTEM LANDS

2810-011753-POO-2016-02

Jones

USE OF THIS FORM IS OPTIONAL! 1<sup>st</sup> TIME USERS SHOULD DIRECT QUESTIONS REGARDING THIS FORM OR REGULATIONS (36 CFR 228A) TO THE FOREST SERVICE DISTRICT OFFICE NEAREST YOUR AREA OF INTEREST.

Submitted by:

Signature

Title

Date

(mm/dd/yy)

Signature

Title

Date

(mm/dd/yy)

Plan Received by:

Signature

Title

Date

(mm/dd/yy)

## I. GENERAL INFORMATION

- A. Name of Mine/Project: Moose Bar Placer
- B. Type of Operation: Small Scale Suction Dredging  
(lode, placer, mill, exploration, development, production, other)
- C. Is this a (☒ new/☐ continuing) operation? (check one).  
If continuing a previous operation, this plan (☐ replaces/☒ modifies/☐ supplements) a previous plan of operations. (check one)
- D. Proposed start-up date (mm/dd/yy) of operation: 7/01/2016
- E. Expected total duration of this operation: 2 Years (for duration of NPDES General Permit)
- F. If seasonal, expected date (mm/dd/yy) of annual reclamation/stabilization close out: 8/15/2016
- G. Expected date (mm/dd/yy) for completion of all required reclamation: 8/15/2017

## II. PRINCIPALS

- A. Name, address and phone number of operator:  
Cory V Jones  
190 W 4<sup>th</sup> N  
Rigby, ID 83442  
208-351-0035
- B. Name, address, and phone number of authorized field representative (if other than the operator).  
Attach authorization to act on behalf of operator.  
Same as owner/operator
- C. Name, address and phone number of owners of the claims (if different than the operator):  
Same as owner/operator

**D. Name, address and phone number of any other lessees, assigns, agents, etc., and briefly describe their involvement with the operation, if applicable:**

Carolyn K Jones      Brett E Jones      Danny R Jones      Nathan C Jones  
[REDACTED]      [REDACTED]      [REDACTED]      [REDACTED] Hwy  
[REDACTED]      [REDACTED]      [REDACTED]      [REDACTED]  
Family and fellow suction dredgers.

**III. PROPERTY OR AREA**

*(Name of claim, if applicable, and the legal land description where the operation will be located.)*

MC#	Name	Section	Township	Range
214603	Moose Bar Placer	16	39N	11E

**IV. DESCRIPTION OF THE OPERATION**

**A. Access.** Show on a map (USGS quadrangle map or a National Forest map, for example) the claim boundaries, if applicable, and all access needs such as roads and trails, on and off the claim. Specify which Forest Service roads will be used, where maintenance or reconstruction is proposed, and where new construction is necessary. For new construction, include construction specifications such as widths, grades, etc., location and size of culverts, describe maintenance plans, and the type and size of vehicles and equipment that will use the access routes.

Access to the claim will be by entering the Forest near Superior MT on primary FS road 250, then on primary FS road 255 to near the confluence of Moose Creek with Kelly Creek. Primary FS road 255 runs through the Moose Bar Placer claim

Traffic to the Moose Bar Placer claim would be limited to two F series pickup trucks similar to those used by other forest users in the area or two Polaris ATV's. Access from FS road 255 to the dredge site will be by foot traffic. A safe foot path will be maintained. No addition roads will be built and no improvements are recommended. The use of motorized vehicles on any roads or trails not currently open to the general public will be subject to prior approval by the forest and will not include any repair or maintenance requiring heavy equipment.

**B. Map, Sketch or Drawing.** Show location and layout of the area of operation. Identify any streams, creeks or springs if known. Show the size and kind of all surface disturbances such as trenches, pits, settling ponds, stream channels and run-off diversions, waste dumps, drill pads, timber disposal or clearance, etc. Include sizes, capacities, acreage, amounts, locations, materials involved, etc.

The attached map shows the location of the claim and proposed location of off claim camping areas.

A revised map will be submitted before each dredging season if the location of the dredge or location of camping trailers and other equipment changes.

Within each stream reach shown, up to 250 total linear feet or 2500 square feet of stream channel will be identified for potential dredging activity in 2016, with a similar amount identified for 2017. This area will be delineated on-site with the presence of the forest geologist or his representative prior to July 1, 2016. If during the 2016 season, i find that the area is not sufficient, then I will contact the forest geologist to delineate additional areas.

*(If more space is needed to fill out a block of information, use additional sheets and attach form)*

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**C. Project Description.** *Describe all aspects of the operation including mining, milling, and exploration methods, materials, equipment, workforce, construction and operation schedule, power requirements, how clearing will be accomplished, topsoil stockpile, waste rock placement, tailings disposal, proposed number of drillholes and depth, depth of proposed suction dredging, and how gravels will be replaced, etc. Calculate production rates of ore. Include justification and calculations for settling pond capacities, and the size of runoff diversion channels.*

Numbers in parentheses correspond to the 32 operating conditions, design features, mitigation measures in the Record of Decision signed in March 2010

This operation would consist of one small suction dredge (4 inch suction nozzle and 10 Hp engine) operated by two or three people on Moose Creek within the extents of the Moose Bar Placer claim (4).

In Stream Operations: Dredging will only occur within the wetted perimeter below the ordinary high water line (1). The intake of the pump will be covered with a 3/32-mesh screen (5). Dredging will only occur in the daylight hours, and prevent disturbing, destabilizing, and undercutting of the stream banks (7, 8). Dredging will last approximately 5 hours per day and 5 days per week. Operations will be ceased during wet periods to prevent excessive ground disturbance (11). Dredging will occur in a manner that prevents bank erosion (12). Woody debris or boulders that extend from the bank into the channel will not be removed, undermined, or excavated (13). In stream woody debris or boulders greater than 12 inches will not be removed, relocated or disturbed (14). Dredgers will not dam the stream channel, change the thalweg of the stream, operate in the gravel bar areas at the tails of pools, or operate in such a way the fine sediment from the dredge blankets gravel bars (16, 18, 19, 20). No mechanized equipment will be operated below the mean high water mark except for the dredge itself and the life support system necessary to operate the dredge (17). Suction dredges will not operate within 800 (per NPDES) linear feet of stream channel of each other (25). Suction dredging will go to bedrock. In this area that is about 8 ft. below the stream bank. Ore production rates cannot be predicted due to the elusive nature of the gold, but approximately 6 cubic yards of material will be processed per day.

We understand the requirements of the Record of Decision for the SEIS and will cooperate with frequent inspections by FS Staff.

Suction dredges, tools used while dredging, and associated equipment will be cleaned with a pressure washer and dried for at least 5 days prior to use on the National Forest in order to prevent the spread of aquatic invasive species (32).

Camping: The claim has no access for camping. A campsite will be maintained at Ruby Creek campground, or other local camping area, occasionally for the suction dredging season. No large down or standing woody debris or trees will be collected or disturbed from within 100 feet of the stream (15). All solid waste will be handled as specified in section V. subsection C. in this document. All camping structures will be removed at the conclusion of the operation each year.

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**D. Equipment and Vehicles.** *Describe that which is proposed for use in your operation (Examples: drill, dozer, wash plant, mill, etc.). Include: sizes, capacity, frequency of use, etc.*

One suction dredge with a 4 inch suction nozzles and a 10 Hp engine. (used daily)

Two Ford F series trucks or Two Polaris ATV's, for transportation to and from the camp site to the dredge site on existing roads (driven daily). Access from the road to the creek will be by foot.

An enclosed trailer will be hauled by the truck to transport mining equipment and other supplies. The trailer will be stationed at the campground, and then removed at the end of the season

Two self-contained trailers and a tent will be used for camping for the length of our dredge season at the campground.

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**E. Structures.** *Include information about fixed or portable structures or facilities planned for the operation. Show locations on the map. Include such things as living quarters, storage sheds, mill buildings, thickener tanks, fuel storage, powder magazines, pipelines, water diversions, trailers, sanitation facilities including sewage disposal, etc. Include engineering design and geotechnical information for project facilities, justification and calculations for sizing of tanks, pipelines and water diversions, etc.*

*(If more space is needed to fill out a block of information, use additional sheets and attach form)*

A canopy may be set up on the claim to shelter equipment and to provide shade. Gasoline and other hazardous chemicals will be stored in the pickup truck or ATV in approved containers. All outhouse facilities will be maintained at the separate camping site. The temporary canopy will be removed at the end of our dredging season.

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#### **V. ENVIRONMENTAL PROTECTION MEASURES (SEE 36 CFR 228.8)**

- A. Air Quality.** *Describe measures proposed to minimize impacts on air quality such as obtaining a burning permit for slash disposal or dust abatement on roads.*

Excessive travel on dusty roads will be avoided

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- B. Water Quality.** *State how applicable state and federal water quality standards will be met. Describe measures or management practices to be used to minimize water quality impacts and meet applicable standards.*

1. *State whether water is to be used in the operation, and describe the quantity, source, methods and design of diversions, storage, use, disposal, and treatment facilities. Include assumptions for sizing water conveyance or storage facilities.*
2. *Describe methods to control erosion and surface water runoff from all disturbed areas, including waste and tailings dumps.*
3. *Describe proposed surface water and groundwater quality monitoring, if required, to demonstrate compliance with federal or state water quality standards.*
4. *Describe the measures to be used to minimize potential water quality impacts during seasonal closures, or for a temporary cessation of operations.*
5. *If land application is proposed for waste water disposal, the location and operation of the land application system must be described. Also describe how vegetation, soil, and surface and groundwater quality will be protected if land application is used.*

Mining operations will be conducted in the stream. Permits required and obtained for this type of work include: EPA's NPDES permit, Corps of Engineers/State of Idaho Joint 404/Permit to alter a stream channel, State 401 certification (30).

The stream will be visually monitored for turbidity 150 ft. downstream. If noticeable turbidity is observed, the dredge will be shut down or turned down until no increase in turbidity is observed 150 ft. downstream (21).

Per the NPDES General Permit, minimum dredge spacing will be 800 feet.

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- C. Solid Wastes.** *Describe the quantity and the physical and chemical characteristics of solid waste produced by the operation. Describe how the wastes will be disposed of including location and design of facilities, or treated so as to minimize adverse impacts.*

*(If more space is needed to fill out a block of information, use additional sheets and attach form)*

All human waste will be kept more than 200 ft. from live water (29). All garbage will be kept in bear resistant containers, and removed regularly to prevent the attraction of bears. All waste will be removed by the conclusion of the dredge season (29)

All tailings will remain in the active channel and will not be placed on the banks

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**D. Scenic Values.** *Describe protection of scenic values such as screening; slash disposal, or timely reclamation.*

Any required reclamation will be completed in a timely fashion to reduce negative scenic impacts. Campsites and dredging sites will be kept neat and free of trash, and revegetated or otherwise restored to the original pre-mining condition at the end of the dredge season (10).

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- E. Fish and Wildlife.** *Describe measures to maintain and protect fisheries and wildlife, and their habitat (includes threatened, endangered, and sensitive species) affected by the operations.*

We will meet with a FS fisheries biologist at a mutually agreed upon date and time Before July 1, 2016 to inspect the proposed dredge site before dredging occurs (3). Dredging will occur in areas of large substrate not preferred for spawning, and at least 50 ft. from identified spawning areas (6) and areas within the proposed dredge site that are unsuitable for dredging will be identified and marked with the assistance of the Forest Service Fisheries Biologist. If any sick, dead, or injured specimen of a threatened and endangered species is found, the dredging operation will shut down immediately and the Vancouver Field Office of NOAA Law Enforcement will be notified for steelhead trout, or the USFWS Division of Law Enforcement will be notified for bull trout. Proper handling of the specimen will be observed, according to USFS SEIS 2004(24).

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- F. Cultural Resources.** *Describe measures for protecting known historic and archeological values, or new sites in the project area.*

If cultural resources are found during the implementation of this project, operations will cease, resources will not be removed, and a Forest Archaeologist will be notified so that an assessment of the continued operations can be made (31).

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**G. Hazardous Substances.**

1. *Identify the type and volume of all hazardous materials and toxic substances which will be used or generated in the operations including cyanide, solvents, petroleum products, and mill, process and laboratory reagents.*

Petroleum Products: Gasoline for dredge (5 gal. on site at any one time), oil for dredge (1 quart at any one time).

2. *For each material or substance, describe the methods, volume, and frequency of transport (include type of containers and vehicles), procedures for use of materials or substances, methods, volume, and containers for disposal of materials and substances, security (fencing), identification (signing/labeling), or other special operations requirements necessary to conduct the proposed operations.*

Gasoline will be stored in a plastic or metal spill proof container away from the stream to minimize the opportunity for accidental spillage (26). The suction dredge and associated equipment will be checked for leaks, and all leaks repaired, prior to the start of operations each day. The fuel container used for refueling will contain less fuel than the amount needed to fill the tank. The suction dredge will be anchored to the stream bank when refueling in the water, so that fuel does not need to be carried out into the stream. No more than 1 gallon of fuel at a time will be transferred during refilling. A funnel will be used while pouring, and absorbent material will be placed under the fuel tank to catch any spillage from fueling operations. A spill kit will be available in case of accidental spillage. Any soil contaminated by spilled petroleum products will be excavated to the depth of saturation will be removed from the National Forest and disposed of properly (27).

3. *Describe the measures to be taken for release of a reportable quantity of a hazardous material or the release of a toxic substance. This includes plans for spill prevention, containment, notification, and cleanup.*

If mercury is discovered during mining operations, it will not be entrained, mobilized or dispersed. Operations will cease and the Forest Service will be notified if mercury is encountered in dredged material. No mercury, cyanide, or other hazardous or refined substance will be used to recover or concentrate gold (28).

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- H. **Reclamation.** Describe the annual and final reclamation standards based on the anticipated schedule for construction, operations and project closure. Include such items as the removal of structures and facilities including bridges and culverts, a revegetation plan, permanent containment of mine tailings, waste, or sludge's which pose a threat of a release into the environment, closing ponds and eliminating standing water, a final surface shaping plan, and post operations monitoring and maintenance plans.

If stream banks are disturbed in any way they will be restored to the original contour and revegetated with native species at the end of the operation (9). Camping areas, paths, and other disturbed sites that are associated with dredge operations will be re-vegetated or otherwise restored to their original conditions at the end of the operation (10).

In Stream Reclamation: Shallow areas will be restored to their original grade each day and natural pools will not be filled. Tailings will be redistributed to avoid creating unstable spawning gravels (22). All dredge piles will be dispersed and dredge holes will be backfilled before moving to a new dredging location and before the end of the operation (23).

Unauthorized Structures: There will be no unauthorized structures.

## VI. FOREST SERVICE EVALUATION OF PLAN OF OPERATIONS

### A. Required changes/modifications/special mitigation for plan of operations:

All requirements/stipulations from other government agencies apply to this POO.

The Record of Decision (dated/signed March 2010) and all documents associated with the Final Environmental Impact Statement (dated May 2013) are part of this document.

No salt licks or other items that attract animals to the area and cause significant disturbance are authorized.

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- B. **Bond.** Reclamation of all disturbances connected with this plan of operations is covered by Reclamation Performance Bond No. 2810-011753-POO-2016-02, dated (mm/dd/yy) 4/7/16 signed by Jones (Principal) and X (Surety), for the penal sum of           . This Reclamation Performance Bond is a guarantee of faithful performance with the terms and conditions listed below, and with the reclamation requirements agreed upon in the plan of operations. This Reclamation Performance Bond also extends to and includes any unauthorized activities conducted in connection with this operation.

The bond amount for this Reclamation Performance Bond was based on a bond calculation worksheet. The bond amount may be adjusted during the term of this proposed plan of operations in response to changes in the operations or to changes in the economy. Both the Reclamation Performance Bond and the bond calculation worksheet are attached to and made part of this plan of operations. Acceptable bond securities (subject to change) include:

1. Negotiable Treasury bills and notes which are unconditionally guaranteed as to both principle and interest in an amount equal at their par value to the penal sum of the bond; or
2. Certified or cashier's check, bank draft, Post Office money order, cash, assigned certificate of deposit, assigned savings account, blanket bond, or an irrevocable letter of credit equal to the penal sum of the bond.

## VII. TERMS AND CONDITIONS

- A. If a bond is required, it must be furnished before approval of the plan of operations.
- B. Information provided with this plan marked confidential will be treated in accordance with the agency's laws, rules, and regulations.
- C. Approval of this plan does not constitute certification of ownership to any person named herein and/or recognition of the validity of any mining claim named herein.
- D. Approval of this plan does not relieve me of my responsibility to comply with other applicable state or federal laws, rules, or regulations.
- E. If previously undiscovered cultural resources (historic or prehistoric objects, artifacts, or sites) are exposed as a result of operations, those operations will not proceed until notification is received from the Authorized Officer that provisions for mitigating unforeseen impacts as required by 36 CFR 228.4(e) and 36 CFR 800 have been complied with.
- F. This plan of operations has been approved for a period of     or until (mm/dd/yy) . A new or revised plan must be submitted in accordance with 36 CFR part 228, subpart A, if operations are to be continued after that time period.

## VIII. OPERATING PLAN ACCEPTANCE

☒ ☐ I/ We have reviewed and agreed to comply with all conditions in this plan of operations including the required changes, modifications, special mitigation, and reclamation requirements.

☒ ☐ I/ We understand that the bond will not be released until the Authorized Officer in charge gives written approval.

Signature of ☒ Operator (or ☐ Authorized Representative)

2-12-2016  
(Date)

(mm/dd/yy)

## IX. OPERATING PLAN APPROVAL

Andrew Skowlund  
(Name)

District Ranger  
(Title)

Signature of (Authorized Officer)

6/24/16  
(Date)

(mm/dd/yy)

### Burden and Non-Discrimination Statement

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0596-0022. The time required to complete this information collection is estimated to average 12 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

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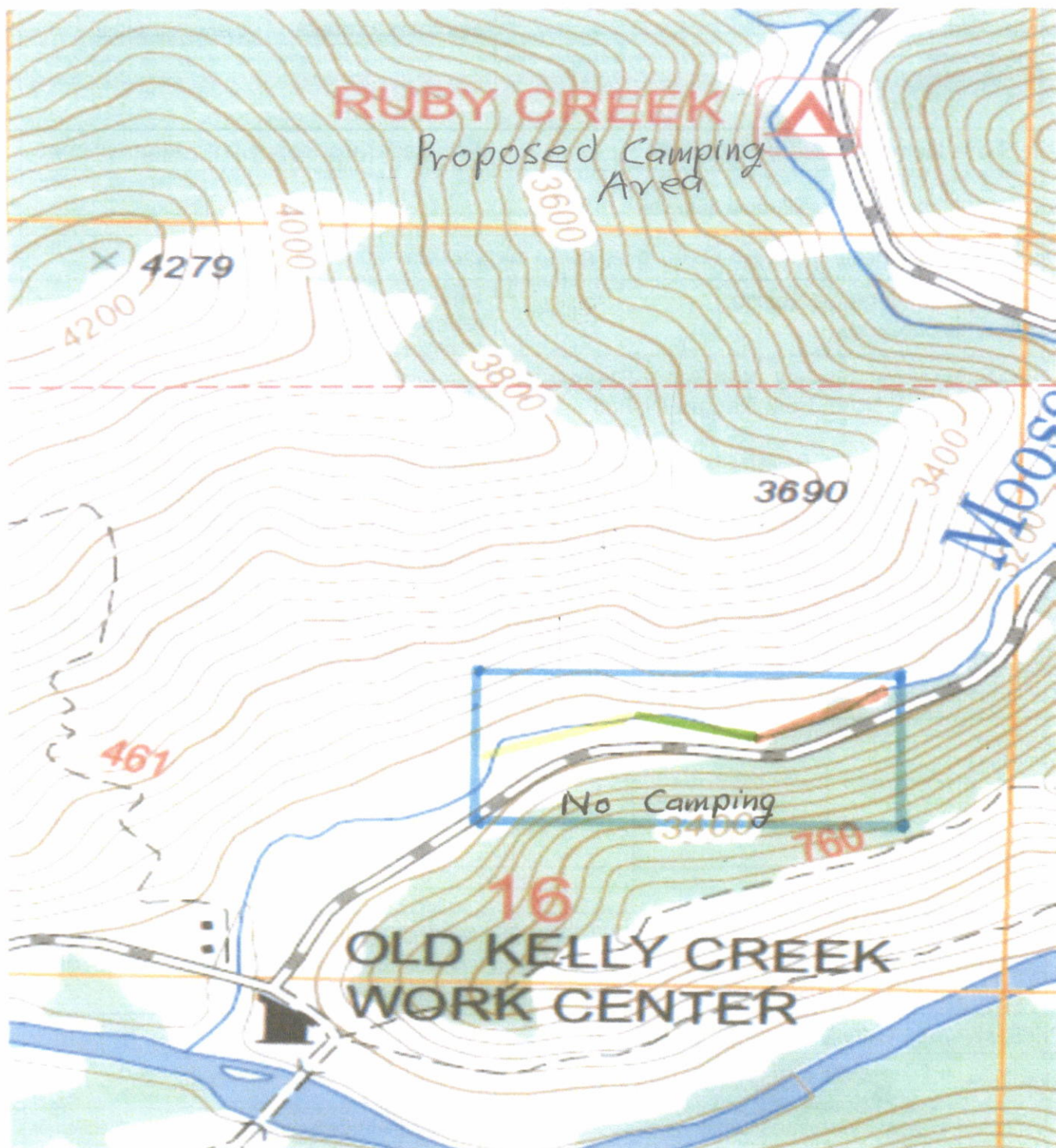
(If more space is needed to fill out a block of information, use additional sheets and attach form)



# Moose Bar Placer Claim

IMC# 214603

Sec. 16 T39N R11E



Dredge Areas

- Claim Boundary
- Site One
- Site Two
- Site Three

APPENDIX A  
Notice of Intent (NOi) Information Sheet  
NPDES General Permit IDG370000  
Small Suction Dredge

Applicant (Owner/Operator): Cory V Jones

Owner Name: Cory V Jones

Winter Address:

Summer Address ☒ Check if same

Telephone Number: [REDACTED]

Email address: cory.v.jones@gmail.com

Operator Name ☒ Check if same as owner

Operation Name (if applicable): Moose Creek Placer IMC#214603

Size of Suction Dredge Nozzle:

4 inch (5 inches or less)

Equipment

rating: 10 hp (15 hp  
or less)

Land Management Agency: Nez Perce-Clearwater  
National Forest, North Fork Ranger District

Contact: Andrew Skowlund

Phone number: 208-476-4541

Permit Part I.D.1. Requires copies of certain land management approvals be submitted with the NOi.

Permit Part I.E. requires that you contact the Idaho Department of Water Resources  
to obtain a permit and determine whether additional restrictions may apply.

**Waterbody Information**

Waterbody*	Nearest Town	Latitude	Longitude	Dates of Operation	Hours of Operation**
Moose Creek	Pierce Idaho	46 deg 43'28"N	115 deg 04'55"W	7/1/16 thru 8/15/16	100 hrs. max.

\*Include a map noting each location.

\*\*An NOi is required on an annual basis for facilities on Mores, Grimes and Elk creeks along with the  
number of dredge hours planned (See Permit Parts I.G.1. and 11.8.3.)

Printed Name: Cory V Jones

Signature: [REDACTED]

Date: 2-12-2016

Certification: I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

# Suction Dredging Site Delineation Sketch Form - ~~15m~~ Reaches

Reach # 1

Upstream is top of page. Number, Flag, Photo, Time, and UTM Features. ~~Cross-hatch No-Gos~~

Stream: Moose Creek

Mining Site Name: Jones

Date: 7/5/16 Time: 1538

Stream Reach:

sections 150' - A11

Upstream Boundary UTM (RBLU):

Downstream Boundary UTM (RBLU):

"Not to Scale"

